## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-31-19 Relating to Certification of New Motor Vehicle Heavy-Duty Engines

HINO MOTORS, LTD.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Hino Motors, Ltd. 1987 model-year diesel engines have shown compliance with the transient test procedure and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)		
HHM0065FAA2	396	(6.5)	Engine Modification (Diesel Injection-Direct) (Turbocharger) (Intercooler)		

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	particulates gm/bhp-hr
HHMOO65FAA2	0.6	2.3	5.5	0.4

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this  $\frac{23^{\circ}}{}$  day of September, 1986.

K. D. Drachand, Chief Mobile Source Division

17-6-5

10.00.00

1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer HINO MOTORS, L	TD Engine Family HHMO	065FAA2
Evaporative Family		oke Cycle, TC-IC
ABBREVIATIONS		
Ignition System	Exhaust Emissions Control System	Special Features
CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard  CFI, CL, DID, DIP, EFI, MFI TV-nVenturi Carburetor	AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System SPL-Smoke Puff Limiter or Throttle Delay TOC-Trap Oxidizer, Continual TOP-Trap Oxidizer, Periodical TR-Thermal Reactor TWC-Three-Way Catalyst System	CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber EFI-Electronic Fuel Injection IC-Intercooler or aftercooler MFI-Mechanical Fuel Injection TC-Turbocharger

## VEHICLE MODELS:

me:	Front <u>×</u>	Mid.	Rear	
Drive:	FWD	RWD x	4WD Full Time	4WD Part Time

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## 19\_87 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufactu	rer HIN	O MOTORS, LTD.		Engine Family	HHMO	0065FAA2
Liter (CI	D)6.4	85 (396)	Ęng	g. Туре <u>∟-6,</u>	4 Stroke C	Cycle, TC-IC
Emission (	Control Sys. a	nd (Special Fea	itures)	Engine Modi	fication	(DID) (TC)
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)
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ин06С−ТН	Nippon Denso	Nippon Denso	225@ 2,700	92 (81.2)	470@ 1,600	94.5 (49.4)
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